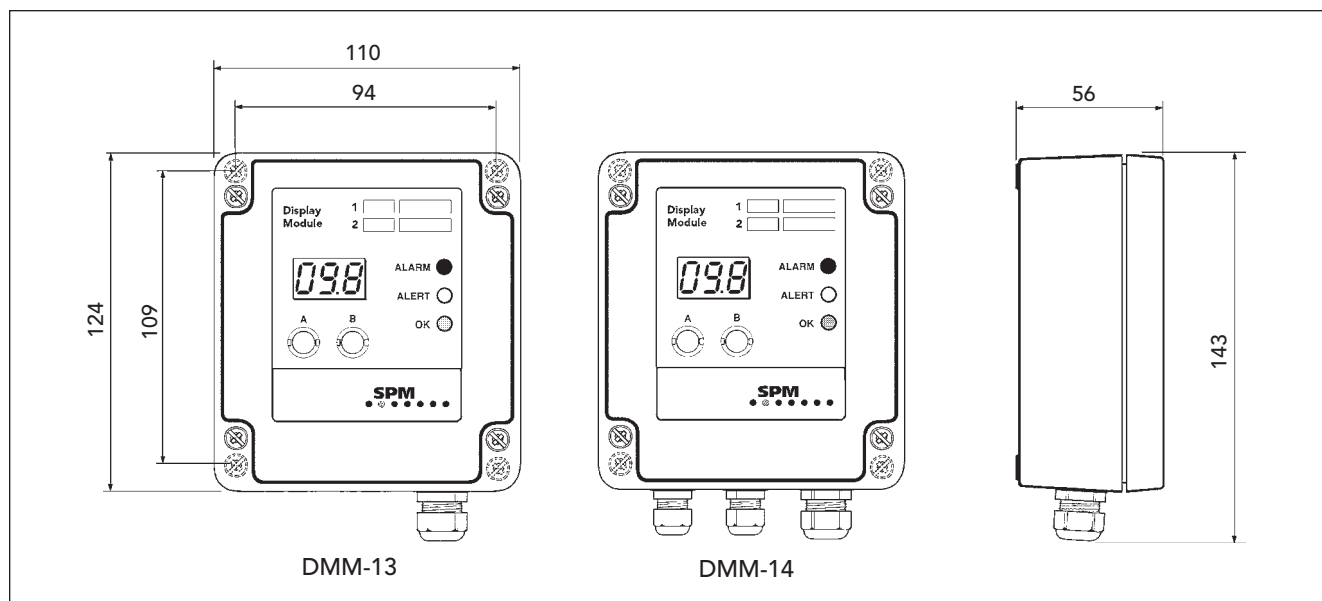


# CMM System - Display Module DMM-13/14



DMM-13 and DMM-14 are condition display modules for 4-20 mA analog signals. Measured quantities and ranges are selected from a preprogrammed list (13 programs) or from user defined programs (7 programs). DMM-14 has two extra cable inlets of type Pg7.

The display module can be wall mounted separately or in a control cabinet or similar. It is supplied with 12 to 24 V DC.

The display module has two input channels and two relay outputs. The relays can be controlled by either input channel. In one channel mode, both relays are slaved to a single input channel and provide relay switching at two levels (ALERT and ALARM). In two channel mode, each input channel uses one relay which switches at a preset ALARM level.

Programmable parameters for each input channel are the measuring range, the two alarm levels ALERT and ALARM, and the alarm delay. These are input using two push buttons. Power failure will not erase the program.

Condition display is provided by three coloured LEDs. The green LED is on while measured values are below the ALERT level. Measured values between ALERT and ALARM on either channel trigger a yellow LED, and a red LED lights up when a measured value exceeds the ALARM level. A blinking yellow LED indicates a system fault (incoming signal below 4 mA).

The measured value is displayed with three digits. In two channel mode the status LED's and the display alternates between the two channels and shows the channel number followed by the measured value on this channel.

## Technical data

Input channels:	2
Input signals:	4 to 20 mA
Relays (2):	24V/100 mA
Measuring range:	selected to match the signal input
Value display:	3 digits, LED
Status display:	green, yellow, and red LED
Alarm limits:	2 per input channel, set with push-buttons
Alarm delay:	0 - 600 seconds for each alarm level
Push-buttons:	2, for display control and programming
Fault indication:	blinking yellow LED = signal below 4 mA
Power supply:	12 to 24V DC ( $\pm 10\%$ , tested according to EN50082-2)
Supply current:	max. 0.1 A
Vibration exposure:	max. 5 mm/s RMS
Cable inlets:	Pg11, IP65 at $\varnothing 5.5$ to 10 mm Pg7, IP65 at $\varnothing 3$ to 6.5 mm (DMM-14)
Housing:	polycarbonate, IP 65
Temperature range:	0° to 55° C
Dimensions:	110 x 143 x 56 mm
Mounting:	4 screws, $\varnothing 4$ mm, spacing 109x94 mm
Weight:	320 g